

indy.ST25.txt
SEQUENCE LISTING

<110> University of Connecticut

Helfand, Stephan L

Reenan, Robert A

Rogina, Blanka

<120> Polynucleotides Encoding Cellular Transporters and Methods of Use Thereof

<130> UCT-0020

<150> 60/255,013

<151> 2000-12-12

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<170> PatentIn version 3.1

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<212> DNA

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<301> Blanka Rogina, Robert A. Reenan, Steven P. Nilsen and Stephen L. Helfand

<302> Extended Life-Span Conferred by Cotransporter Gene Mutations in Drosophila

<303> Science

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ctg cta tgt ctg cct gtt atg ctg cta aac gaa ggc gcc gaa ttt cg			144
Leu Leu Cys Leu Pro Val Met Leu Leu Asn Glu Gly Ala Glu Phe Arg			
35 40 45			
tgc atg tac ctc ctt ttg gta atg gcc ata ttt tgg gtt acg gaa gcc			192
Cys Met Tyr Leu Leu Leu Val Met Ala Ile Phe Trp Val Thr Glu Ala			
50 55 60			
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Leu Pro Leu Tyr Val Thr Ser Met Ile Pro Ile Val Ala Phe Pro Ile			
65 70 75 80			
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Met Gly Ile Met Ser Ser Asp Gln Thr Cys Arg Leu Tyr Phe Lys Asp			
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acg ctg gtg atg ttc atg ggc ggc att atg gtc gcc ctg gct gtg gag			336
Thr Leu Val Met Phe Met Gly Gly Ile Met Val Ala Leu Ala Val Glu			
100 105 110			
tac tgt aat cta cac aaa cgt ctt gcc ttg agg gta atc cag atc gtg			384
Tyr Cys Asn Leu His Lys Arg Leu Ala Leu Arg Val Ile Gln Ile Val			
115 120 125			
ggc tgc agt ccc cgc aga tta cac ttt ggc ctc atc atg gtt aca atg			432
Gly Cys Ser Pro Arg Arg Leu His Phe Gly Leu Ile Met Val Thr Met			
130 135 140			
ttt ttg agc atg tgg att tcg aac gcc gcc tgt act gcc atg atg tgt			480
Phe Leu Ser Met Trp Ile Ser Asn Ala Ala Cys Thr Ala Met Met Cys			
145 150 155 160			
ccg att atc caa gcc gtg ctg gag gag ctg cag gct cag ggt gtc tgc			528
Pro Ile Ile Gln Ala Val Leu Glu Glu Leu Gln Ala Gln Gly Val Cys			
165 170 175			
aaa atc aac cat gag cct caa tac caa atc gtt gga ggc aac aag aaa			576
Lys Ile Asn His Glu Pro Gln Tyr Gln Ile Val Gly Gly Asn Lys Lys			
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485	490	495	
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Cys Met Tyr Leu Leu Leu Val Met Ala Ile Phe Trp Val Thr Glu Ala 50 55 60			

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Leu Pro Leu Tyr Val Thr Ser Met Ile Pro Ile Val Ala Phe Pro Ile
65 70 75 80

Met Gly Ile Met Ser Ser Asp Gln Thr Cys Arg Leu Tyr Phe Lys Asp
85 90 95

Thr Leu Val Met Phe Met Gly Gly Ile Met Val Ala Leu Ala Val Glu
100 105 110

Tyr Cys Asn Leu His Lys Arg Leu Ala Leu Arg Val Ile Gln Ile Val
115 120 125

Gly Cys Ser Pro Arg Arg Leu His Phe Gly Leu Ile Met Val Thr Met
130 135 140

Phe Leu Ser Met Trp Ile Ser Asn Ala Ala Cys Thr Ala Met Met Cys
145 150 155 160

Pro Ile Ile Gln Ala Val Leu Glu Glu Leu Gln Ala Gln Gly Val Cys
165 170 175

Lys Ile Asn His Glu Pro Gln Tyr Gln Ile Val Gly Gly Asn Lys Lys
180 185 190

Asn Asn Glu Asp Glu Pro Pro Tyr Pro Thr Lys Ile Thr Leu Cys Tyr
195 200 205

Tyr Leu Gly Ile Ala Tyr Ala Ser Ser Leu Gly Gly Cys Gly Thr Ile
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Ile Gly Thr Ala Thr Asn Leu Thr Phe Lys Gly Ile Tyr Glu Ala Arg
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Phe Lys Asn Ser Thr Glu Gln Met Asp Phe Pro Thr Phe Met Phe Tyr
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Ser Val Pro Ser Met Leu Val Tyr Thr Leu Leu Thr Phe Val Phe Leu
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Glu Val Gln Arg Gly Arg Glu Gly Ala Asp Val Ala Lys Lys Val Ile
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Asp Gln Arg Tyr Lys Asp Leu Gly Pro Met Ser Ile His Glu Ile Gln
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Pro Gly Ile Phe Leu Gly Trp Ala Asp Leu Leu Asn Ser Lys Asp Ile
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Arg Asn Ser Met Pro Thr Ile Phe Val Val Val Met Cys Phe Met Leu
355 360 365

Pro Ala Asn Tyr Ala Phe Leu Arg Tyr Cys Thr Arg Arg Gly Gly Pro
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Val Pro Thr Gly Pro Thr Pro Ser Leu Ile Thr Trp Lys Phe Ile Gln
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Thr Lys Val Pro Trp Gly Leu Val Phe Leu Leu Gly Gly Phe Ala
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Leu Ala Glu Gly Ser Lys Gln Ser Gly Met Ala Lys Leu Ile Gly Asn
420 425 430

Ala Leu Ile Gly Leu Lys Val Leu Pro Asn Ser Val Leu Leu Val
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Val Ile Leu Val Ala Val Phe Leu Thr Ala Phe Ser Ser Asn Val Ala
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Ile Ala Asn Ile Ile Ile Pro Val Leu Ala Glu Met Ser Leu Ala Ile
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